PTO/SB/08A	
FORM 1449APTO [6-1]	



Patent and Trademark Office: U. epartment of Commerce

INFORMATION DISC	CLOSURE
STATEMENT BY AP	PLICANT
	OIPE
(use as many sheets as neces	sapp)
	MAR 1 7 2000 2
Sheet 1 of 4	PRADEMARKE

ATTY. DOCKET NO.	SERIAL NO.	
22253-66093	09/460,605	
APPLICANT DISCHER ET AL.		
FILING DATE	GROUP	
12/14/99	1623	

U.S. PATENT DOCUMENTS

DOCUMENT NUMBER	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		realize of Applicant of	Cited Document Cited Document

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Office	DOCUMENT NUMBER	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T
	_						

OTHER PRIOR ART--NON PATENT LITERATURE DOCUMENTS

EXAMIN Initial:		Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published	
<u></u>	\	A	Alberts et al, "Molecular Biology of the Cell, 3rd ed., pp.489-493; pp. 800-801, Garland Publishing, Inc., New York (1994)	
		В	Angelova et al., "Preparation of giant vesicles by external AC electric fields. Kinetics and applications", Prog. Coll. Polym. Sci. 89:127 (1992)	
		С	Bates, "Polymer-Polymer Phase Behavior", Science 251:898 (1991)	
		D	Bloom et al., "Physical properties of the fluid lipid-bilayer component of cell membranes: a perspective", Q. Rev. Biophys. 24 (3):293 (1991)	
		Е	Chaieb et al. "Spontaneous curvature-induced pearling instability", Phys. Rev. E 58:7733 (1998)	
		F	Cevc & Lasic in Handbook of Biological Physics, Chaps. 9-10, (1995)	
		G	Cornelissen <i>et al.</i> , "Helical Superstructures from Charged Poly(styrene)-Poly(isocyanodipeptide) Block Copolymers", <i>Science</i> 280:1427 (1998)	
		H	Ding and Lieu, "Water-Soluble Hollow Nanospheres as Potential Drug Carriers", J. Phys. Chem. B 102:6107-6113 (1998)	
\	/]	I	DISCHER et al., "Polymersomes: Tough Vesicles Made from Diblock copolymers", Science 284:1143 (MAY 14, 1999)	

PTO/SB/08A
FORM 1449APTO [6-1]

Patent and Trademark Office: U.

INFORMATION DISCLOSUR	₹Ę	ATTY, DOC
STATEMENT BY APPLICAN	TPE	22253-6
(use as many sheets as necessary)	AR 1 7 2000 2	APPLICANT DISCHE
R.	Ē	FILING DAT
Sheet 2 of 4	& TRADEMARK	12/14/99

	•
ATTY. DOCKET NO.	SERIAL NO.
22253-66093	09/460,605
APPLICANT DISCHER ET AL.	
FILING DATE	GROUP 1623

Sheet 2 of 4

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

EXAMINER Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published	Т
M	J	Dobereiner et al, "Mapping vesicle shapes into the phase diagram: A comparison of experiment and theory", Phys. Rev. E 55:4458 (1997)	
	K	Deuling et al., "The Curvature Elasticity of Fluid Membranes: A Catalogue of Vesicle Shapes", J. Phys. 37:1335 (1976)	
	L	Evans and Needham, "Physical Properties of Surfactant Bilayer Membranes: Thermal Transitions, Elasticity, Rigidity, Cohesion, and Colloidal Interactions", J. Phys. Chem. 91, 4219 (1987)	
·	M	Evans et al., "Entropy-Driven Tension and Bending Elasticity in Condensed-fluid Membranes", Phys. Rev. Lett. 64 (17): 2094 (1990)	
	N	Fendler et al., "Polymerized Surfactant Vesicles: Novel Membrane Mimetic Systems", Science 223:888 (1984)	
	0	Harasym et al., "Intratumor distribution of doxorubicin following i.v. administration of drug encapsulated in egg phosphatidylcholine/cholesterol liposomes", Cancer Chemother. Pharmacol. 40:309 (1997)	
	P	Hajduk et al., "Complex Phase Behavior in Aqueous Solutions of Poly(ethylene oxide)-Poly(ethylethylene) Block Copolymers", J. Phys. Chem. B 102:4269 (1998)	
	Q	Helfrich et al, "Undulations, Steric Interactions and Cohesion of Fluid Membranes", Il Nuovo Cimento 3D:137 (1984)	
	R	Henselwood et al., "Water-Soluble Porous Nanospheres", Macromolecules 31:4213 (1998)	
	S	Hentze et al, "Lyotropic Mesophases of Poly(ethylene oxide)-b-poly(butadiene) Diblock Copolymers and Their Cross-Linking To Generate Ordered Gels", Macromolecules 32 (18): 5803-5809 (JULY 30, 1999)	
//	T	Hillmyer and Bates, "Synthesis and Characterization of Model Polyalkane-Poly(ethylene oxide) Block Copolymers", <i>Macromolecules</i> 29: 6994 (1996)	
	U	Hillmyer et al., "Complex Phase Behavior in Solvent-Free Nonionic Surfactants", Science 271:976-978 (1996)	

PTÓ/SB/08A
FORM 1449APT() [6-1]

Patent and Trademark Office: U. pepartment of Commerce

INFORMATION DISCLOSURE	ATTY. DOCKET NO.	SERIAL NO.
STATEMENT BY APPLICANT	22253-66093	09/460,605
(use as many sheets as necessary	APPLICANT DISCHER ET AL.	
MAK 1 / 2000 · ·]	FILING DATE	GROUP
Sheet 3 of 4	12/14/99	1623

OTHER PRIOR ART--NON PATENT LITERATURE DOCUMENTS

		THE TOTAL PROPERTY OF THE PROP	
EXAMINER Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published	Т
[m	V	J. Israelachvili, "Fluid-Like Structures and Self-Assembling Systems: Micelles, Bilayers and Biological membranes", Part 3, 2 nd ed., <i>Intermolecular and Surface Forces</i> (1995)	
	W	Koltover et al., An Inverted Hexagonal Phase of Cationic Liposome- DNA Complexes Related to DNA Release and Delivery", Science 281:78 (1998)	
	X	Komatsu <i>et al.</i> , "Solid Vesicle Membrane Made of " <i>meso</i> -Tetrakis[(bixinylamino)- <i>o</i> -phenyl]porphyrins", <i>J. Am. Chem. Soc.</i> 119:11660 (1997)	
	Y	Lin et al., "Cryogenic Electron Microscopy of Rodlike or Wormlike Micelles in Aqueous Solutions of Nonionic Surfactant Hexaethylene Glycol Monohexadecyl Ether", Langmui, 8: 2200 (1992)	
	Z	Lipowsky and Sackmann, Eds., "Structure and Dynamics of Membranes from Cells to Vesicles", <i>Handbook of Biological Physics</i> , Vol. 1, Chap. 1-4, 5-10 (Elsevier Science, Amsterdam, 1995)	
	AA	Liu and O'Brien, "Cross-Linking Polymerization in Two-Dimensional Assemblies: Effect of the Reactive Group Site", <i>Macromolecules</i> 32:5519-5524 (AUGUST 7, 1999)	
	AB	Longo et al., "Interaction of the Influenza Hemagglutinin Fusion Peptide with Lipid Bilayers: Area Expansion and Permeation", Biophys. J. 73:1430 (1997)	
	AC	Mueller et al., "Light-Stimulated Destabilization of PEG-Liposomes", Polymer Preprints (ACS) 40(2): 205-206 (AUGUST 22, 1999)	
	AD	Needham et al., "The Mechanochemistry of Lipid Vesicles Examined by Micropipet Manipulation Techniques", in Vesicles, M. Rosoff, Ed. (Dekker, New York), Chap. 9 (1996)	
	AE	Needham et al., "Elastic deformation and failure of lipid bilayer membranes containing cholesterol", Biophys. J. 58:997 (1990)	
J	AF	Netz et al., "Pore formation and rupture in fluid bilayers", Phys. Rev. E 53 (4): 3875 (1996)	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary MAR 1 7 2000 MAR

	7.7	
ATTY. DOCKET NO.	SERIAL NO.	
22253-66093	09/460,605	
APPLICANT DISCHER ET AL.		
FILING DATE	GROUP	
12/14/99	1623	

Sheet 4 of 4

OTHER PRIOR ART--NON PATENT LITERATURE DOCUMENTS

EXAMINER Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published	Т
w.	AG	Petrov, A.G. and Bivas, I., "Elastic and Flexoelectic Aspects of Out-of-Plant Fluctuations in biological and Model Membranes", <i>Prog. Surf. Sci.</i> 18:359 (1984)	
	АН	Schmid-Schoenbein et al., "Spectrin, Red Cell Shape and Deformability", Blut 52(3):131 (Springer-Verlag 1986)	
	AI	Seifert et al., "Shape transformations of vesicles: Phase diagram for spontaneous-curvature and bilayer-coupling models", Phys. Rev. A 44:1182 (1991)	
	AJ	Sisson et al., "Cross-Linking Polymerizations in Two –Dimensional Assemblies", Macromolecules 29:8321 (1996)	
	AK	Svetina et al., "Membrane bending energy and shape determination of phospholipid vesicles and red blood cells", Eur. Biophys J., 17:101 (Springer-Verlag 1989)	
	AL	Szleifer et al., "Curvature Elasticity of Pure and Mixed Surfactant Films", Phys. Rev. Lett. 60(19): 1966 (1988)	
	AM	Stefely et al, "Permeability Characteristics of Lipid Bilayers from Lipoic Acid Derived Phosphatidylcholines: Comparison of Monomeric, Cross-Linked and Non-Cross-Lined Polymerized Membranes", J. Am. Chem. Soc. 110:7463-7469 (1988)	
	AN	Uchegbu et al., "Polymeric Chitosan-based Vesicles for Drug Delivery", J. Pharm. Pharmacol. 50:453 (1998)	
	AO	Warriner et al., "Lamellar Biogels: fluid-Membrane-Based Hydrogels Containing Polymer Lipids", Science 271: 969 (1996)	
	AP	Won et al., "Giant Wormlike Rubber Micelles", Science 283:960-3 (FEB 12, 1999)	
Ü	AQ	Yu et al., "Morphogenic Effect of Solvent on Crew-Cut Aggregates of Amphiphilic Diblock Copolymers", Macromolecules 31:1144 (1998)	